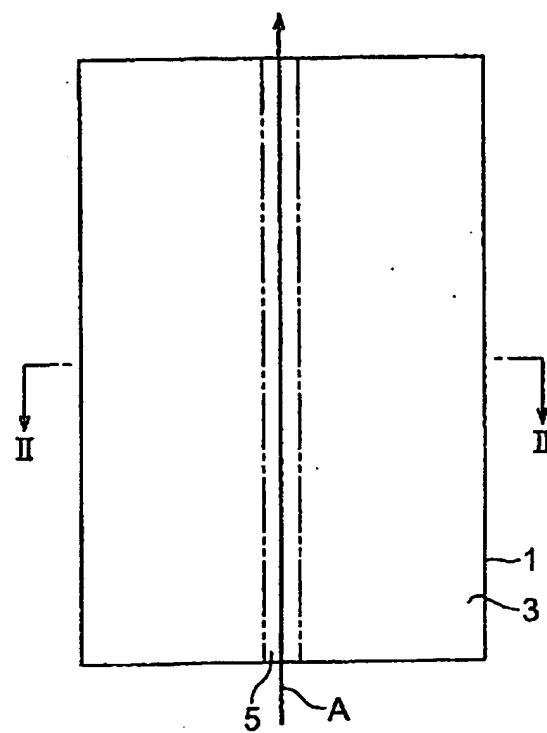


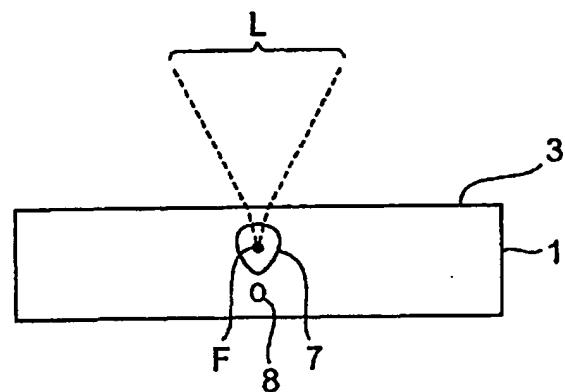
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Fig.1

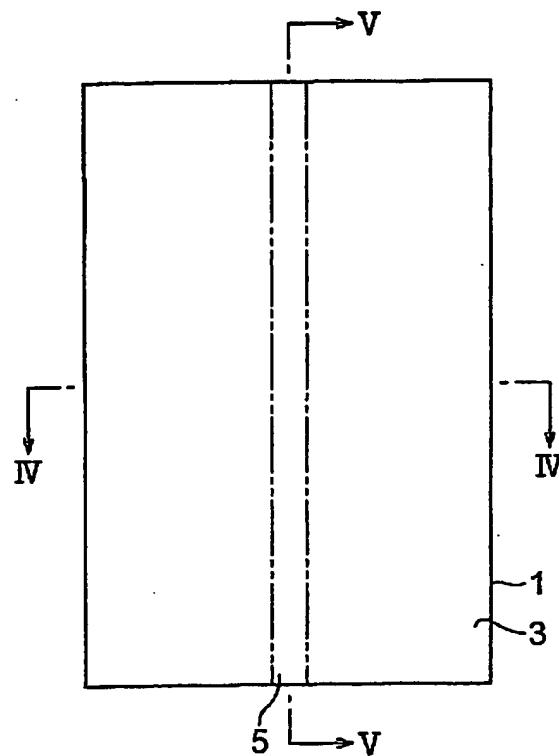
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Fig.2

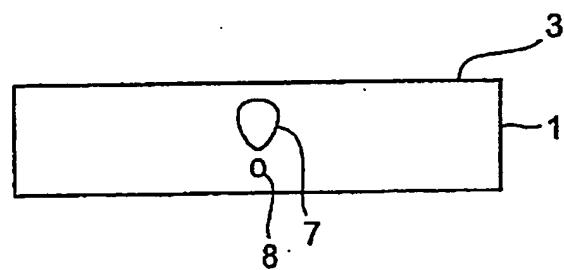
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Fig.3

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Fig.4

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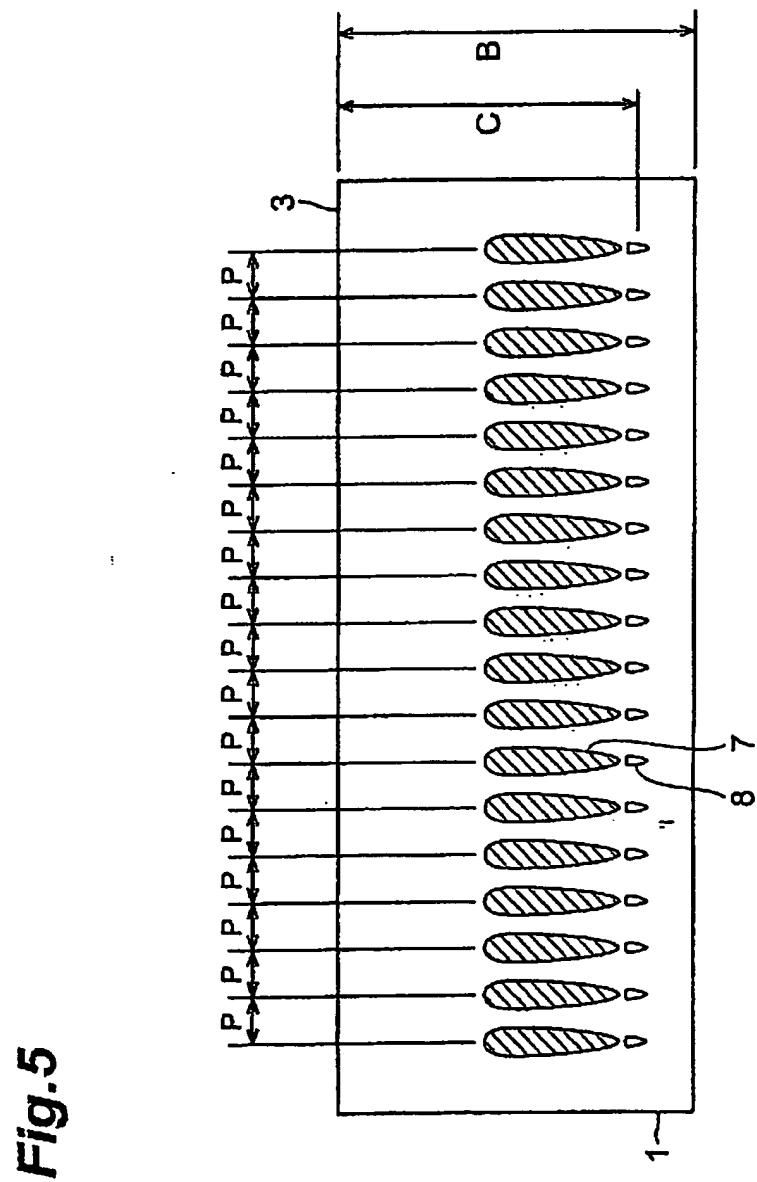
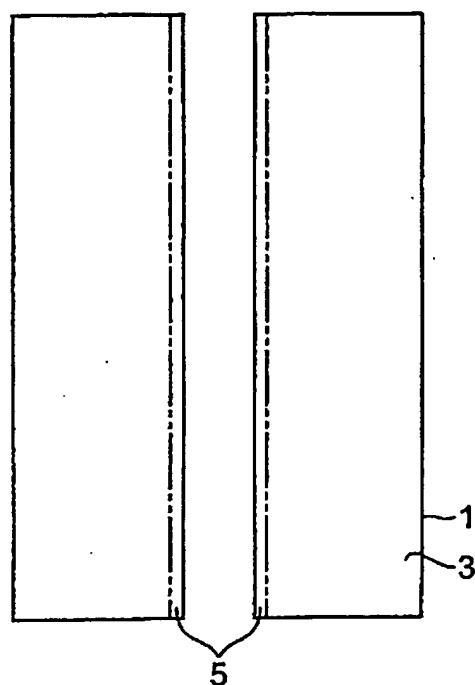


Fig.5

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Fig.6

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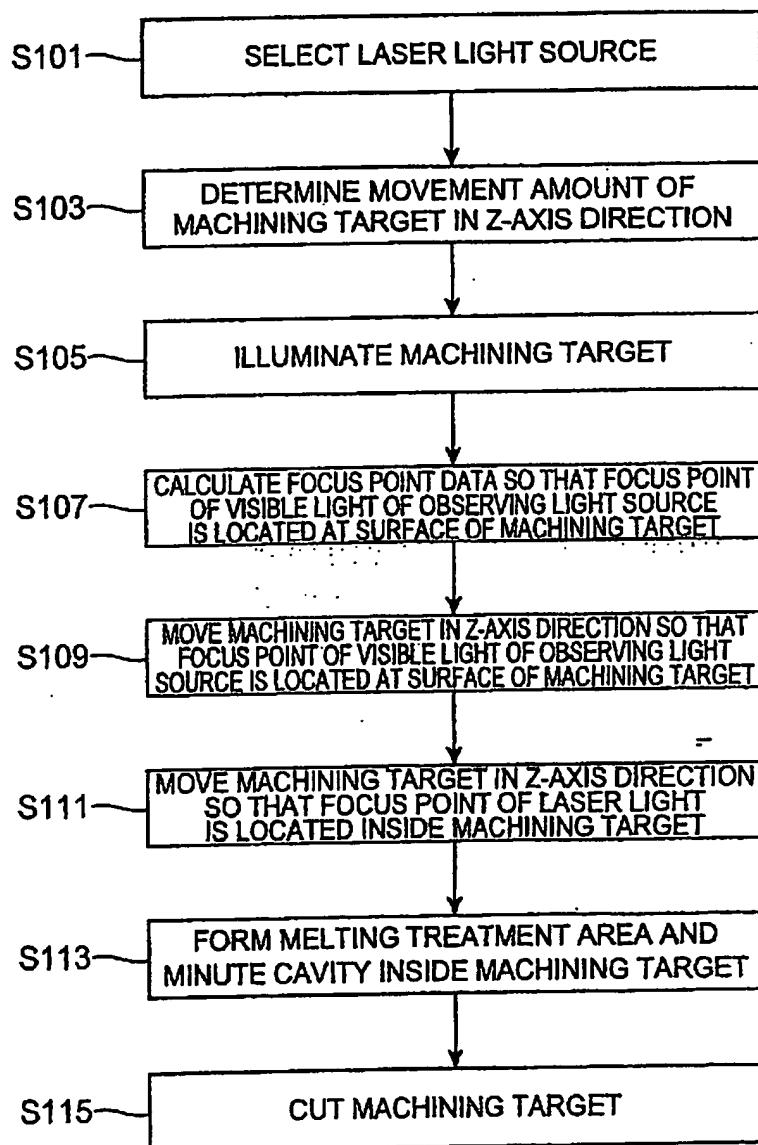
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Fig. 7

This block diagram illustrates a microscopy system architecture. The top section shows a control loop: an **OVERALL CONTROLLER** (127) is connected to a **IMAGE PICKUP DATA PROCESSOR** (125), which in turn connects to a **STAGE CONTROLLER** (115). The **STAGE CONTROLLER** provides feedback to the **OVERALL CONTROLLER**. The bottom section details the optical path. A **LASER LIGHT SOURCE** (101) and an **OBSERVING LIGHT SOURCE** (117) are connected to a **LASER LIGHT SOURCE CONTROLLER** (102). Light from the laser source controller passes through lenses 119 and 103, and is focused by lens 105 onto a specimen stage. The stage assembly includes lenses 3, 5, and 7, and components 106, 107, 111, 113, and 109. A feedback line labeled 'F' connects the stage assembly back to the **OVERALL CONTROLLER**.

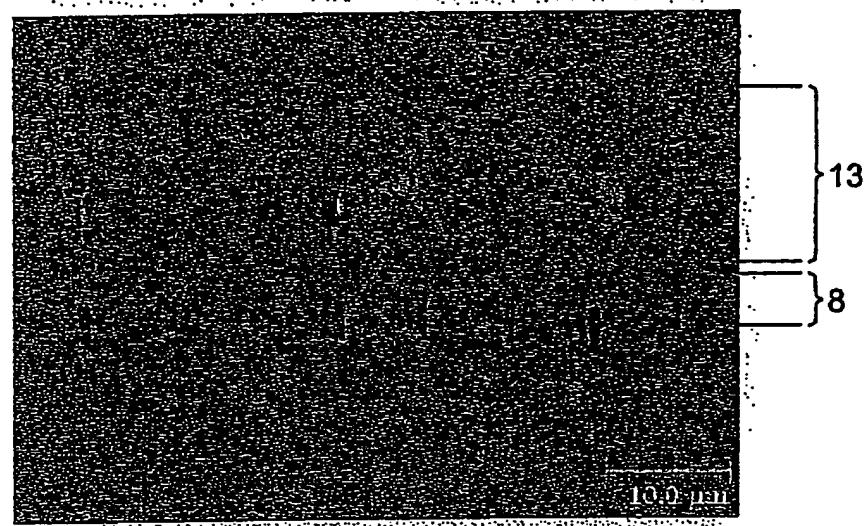
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Fig.8

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Fig.9

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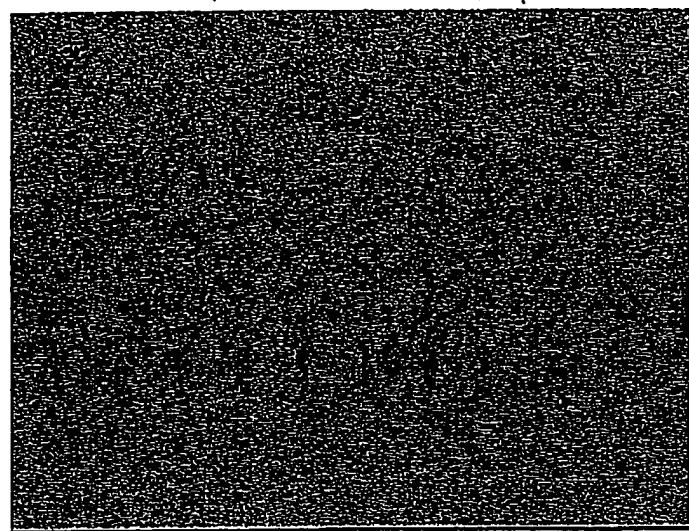
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Fig.10

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Fig.11



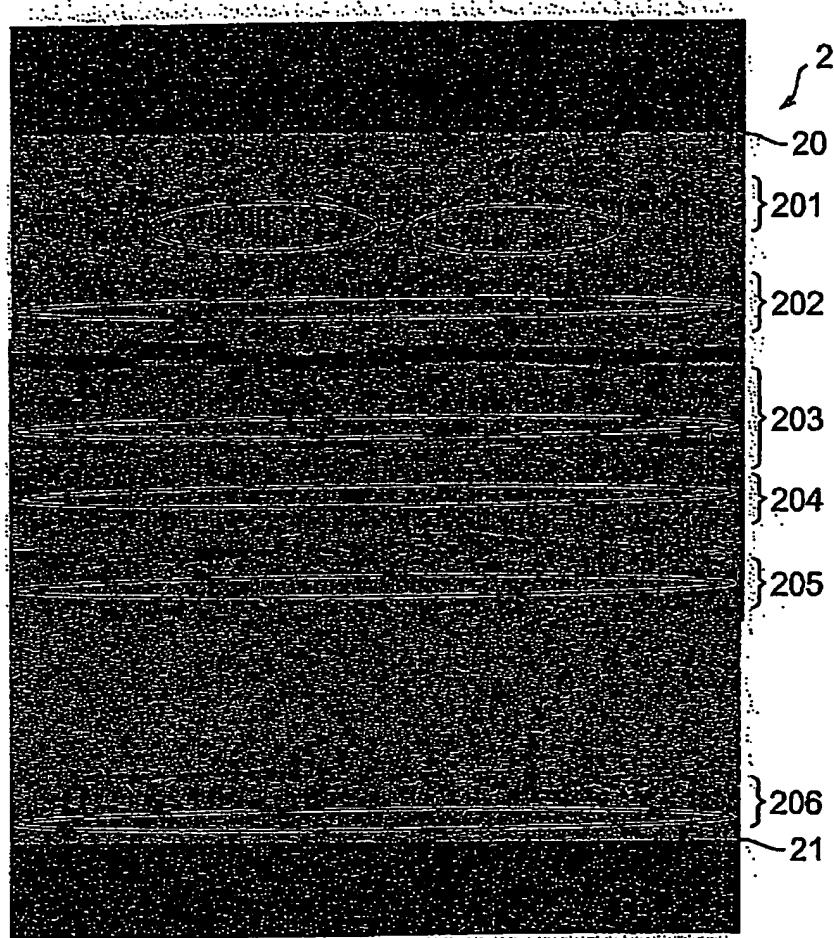
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Fig. 12

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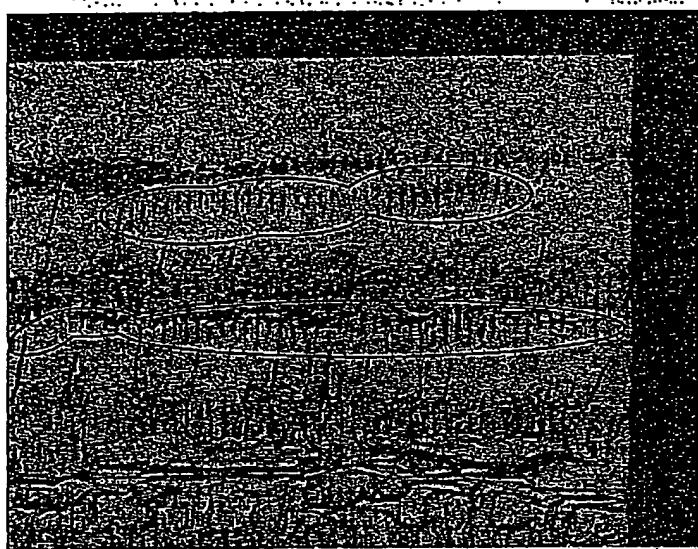
Fig.13

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Fig.14

2a



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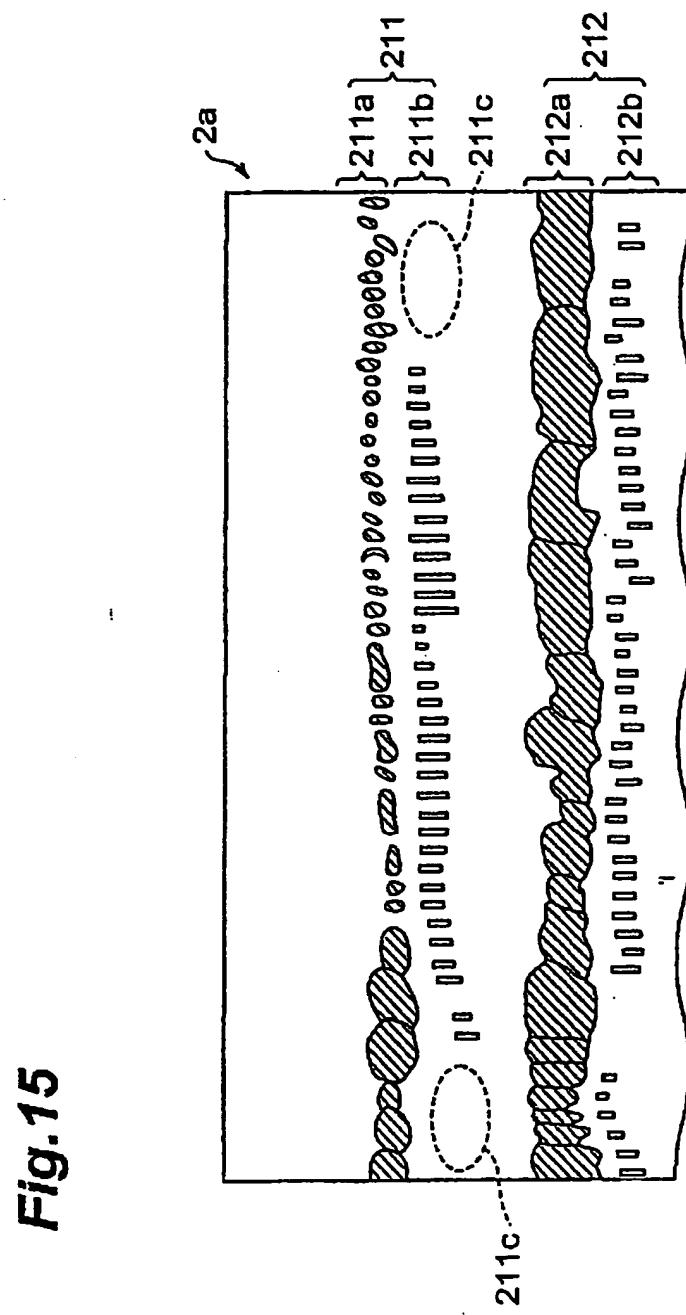


Fig. 15

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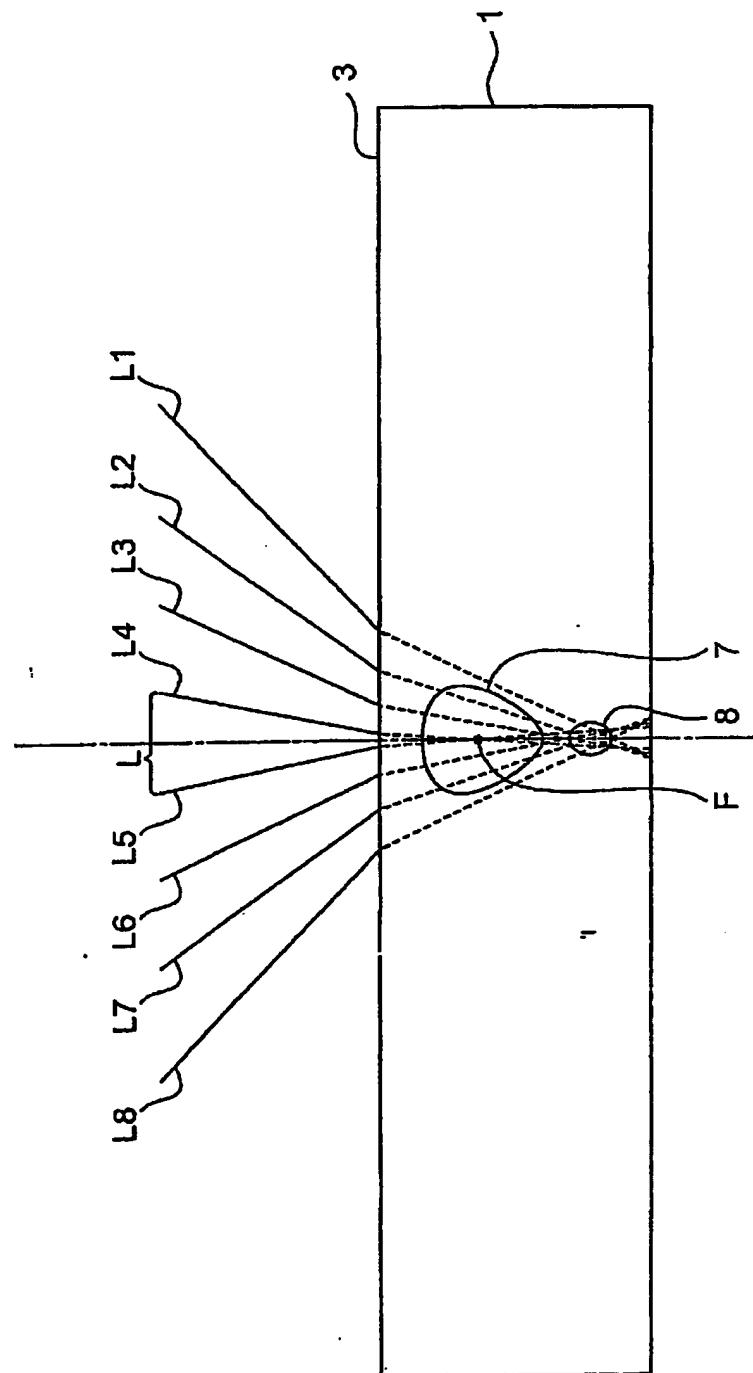
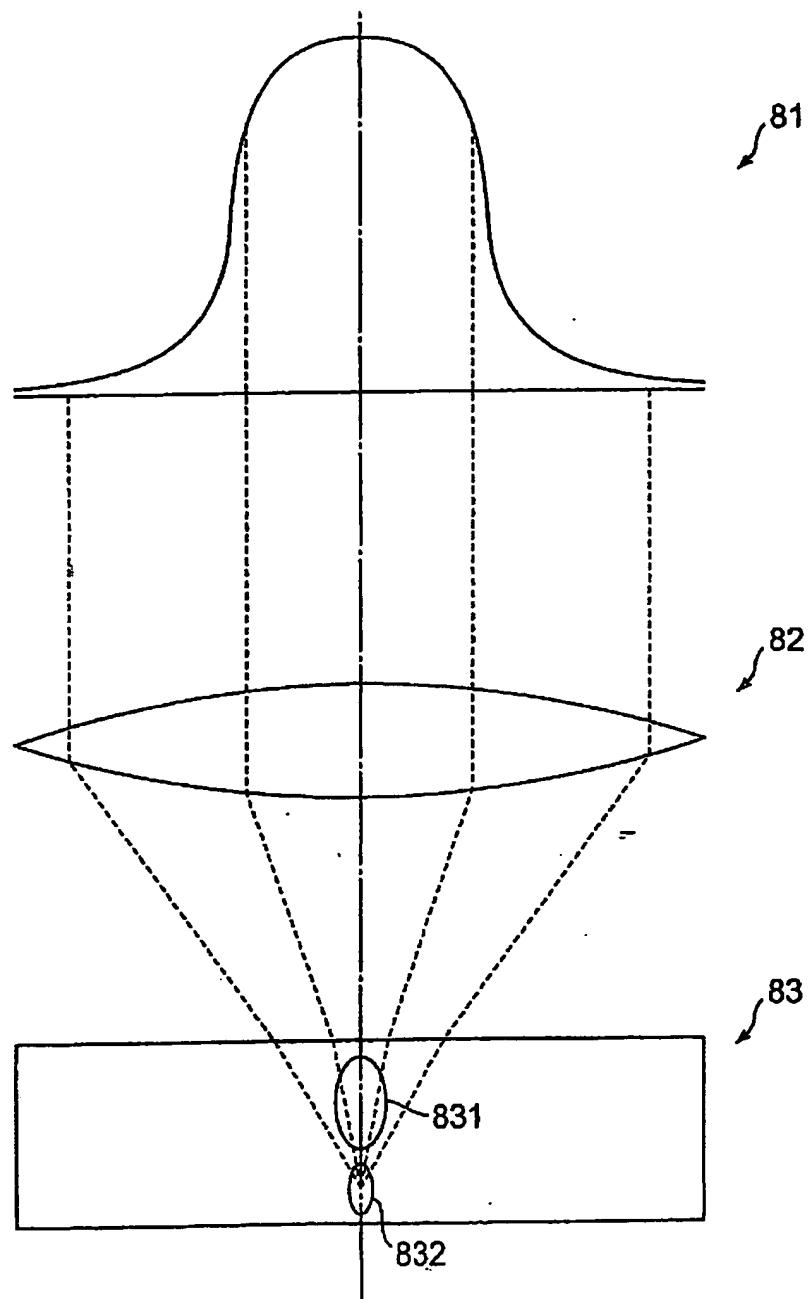


Fig. 16

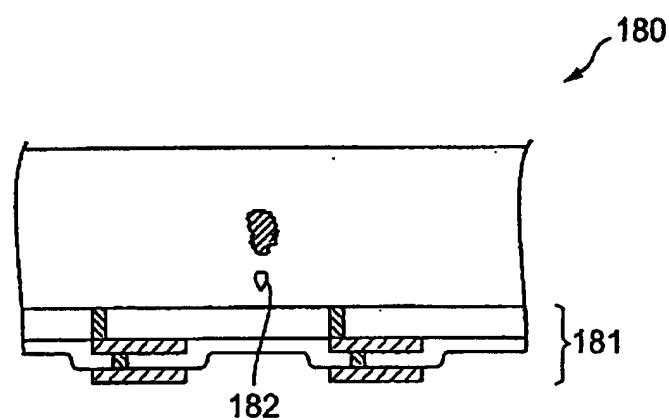
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Fig.17

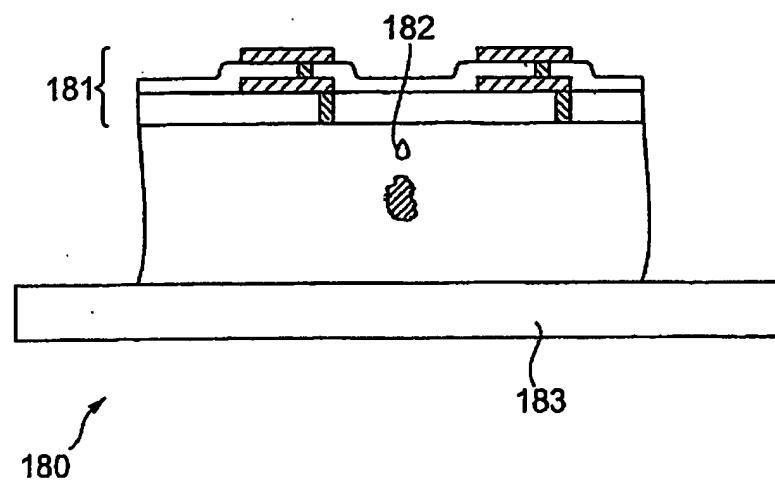
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Fig.18

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Fig.19

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Fig.20